

AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of the Claims

1 1. (amended) A video display apparatus, operable at a plurality
2 scanning frequencies and including scanning beam velocity modulation,
3 comprising:
4 a controllable scanning velocity modulation signal amplifier for generating
5 a scanning velocity modulation deflection signal responsive to a scanning
6 velocity modulation signal; and,
7 means for generating a control signal coupled to said amplifier for open
8 loop control of said scanning velocity modulation deflection signal in a
9 predetermined range of amplitudes responsive to selected ones of said plurality
10 of scanning frequencies.

1 2. (previously presented) The video display apparatus of claim 1, wherein
2 said control signal reduces said scanning velocity modulation deflection signal
3 amplitude in accordance with an increasing scanning frequency of said plurality
4 of scanning frequencies.

1 3. (previously presented) The method according to claim 1, comprising a
2 further step of:
3 selecting a different one of said plurality of horizontal scanning frequencies
4 and reducing said amplitude of a scanning velocity modulation signal in
5 accordance with said different one having a horizontal scanning frequency
6 greater than a horizontal scanning frequency of a prior selection.

1 4. (previously presented) A method for controlling scan velocity
2 modulation in a video display apparatus operable at a plurality of horizontal
3 scanning frequencies, comprising the steps of:

RCA 89,383

1 generating from a signal coupled for display by said apparatus a scanning
2 velocity modulation signal with a range of amplitudes representative of a
3 horizontal scanning frequency of said signal coupled for display;

4 determining said horizontal scanning frequency of said signal coupled for
5 display;

6 generating a control signal in accordance with said determined scanning
7 frequency to maintain said scanning velocity modulation signal within said range
8 of amplitudes substantially independent of said horizontal scanning frequency of
9 said signal coupled for display.

10 5. (amended) The method according to claim ~~5~~ 4, wherein said
11 control signal generating step comprises the step of;

12 representing said determined horizontal scanning frequency with a DC
13 voltage that varies proportionally as a function of said determined horizontal
14 scanning frequency.

1 6. (amended) The method according to claim ~~8~~ 5, comprising the step
2 of;

3 controlling said amplitude of said scanning velocity modulation signal
4 responsive to said DC voltage.

1 7. (previously presented) The method according to claim 5, wherein said
2 control signal generating step comprises the step of;

3 representing said determined horizontal scanning frequency with a digital
4 signal generated by a microprocessor.

1 8. (amended) The method according to claim ~~10~~ 7 comprises the step
2 of;

3 controlling said amplitude of said scanning velocity modulation signal
4 responsive to said digital signal.

1 9. (previously presented) A video display apparatus with scan velocity
2 modulation and operable at a plurality of scanning frequencies comprising:

RCA 89,383

means for generating a scan velocity modulation signal from a display signal coupled to said apparatus, said scanning velocity modulation signal having an amplitude range;

means for determining said horizontal scanning frequency of said display signal;

means for generating a control signal responsive to said determined horizontal scanning frequency; and,

a differential amplifier responsive to said control signal for selectively controlling said scanning velocity modulation signal to maintain said scan velocity modulation signal within said amplitude range substantially independent of said determined horizontal scanning frequency.

10. (amended) The video display apparatus according to claim ~~12~~ 9, wherein said means for selectively controlling reduces said amplitude of said scanning velocity modulation signal in accordance a frequency increase of said determined horizontal scanning frequency.

11. (amended) The video display apparatus according to claim ~~12~~ 9, wherein said means for selectively controlling halves said amplitude of said scanning velocity modulation signal for each octave increase in said determined horizontal scanning frequency.

12. (amended) The video display apparatus according to claim ~~12~~ 9, wherein said control signal representing said determined horizontal scanning frequency is a DC voltage that varies proportionally as a function of said determined horizontal scanning frequency.

13. (amended) The video display apparatus according to claim ~~12~~ 9, wherein said control signal representing said determined horizontal scanning frequency is a digital signal generated by a microprocessor.

1 14. (amended) The video display apparatus according to claim ~~16~~ 13,
2 wherein said digital signal sets a gain register to control said amplitude of said
3 scanning velocity modulation signal.